## THE PANAMA ABYSS.

A Crisis Near at Hand for M. De Lesseps' Gigantic Enterprise.

An Array of Financial Figures Large Enough to Stun an Ordinary Person.

Interview with the Chief Engineer of the Slaven Dredging Company.

He Asserts That the Work Can Be Done Only by American Men and Money.

of its commerce, an incomplete canal, not more than fifteen feet in depth (4.57 meters), and burflened with debts exceeding \$1,000,000,000."

exceeding \$1,000,000,000."

The face of M. de Lesseps appears in the illustration accompanying this article, and beneath it yawns that fearful hole, the Panama Canal. The most daring of the world's engineers, it is mournfully appropriate that his greatness should be doomed to burial in the most stupendous work that man ever attempted. For it seems to-day absolutely certain that the canal will never be completed. The money expended to date—almost entirely from the people of France—amounts to 1,060,000,000 francs (\$212,000,000) and nearly every franc has been expended. All except \$18,600,000 paid for the All except \$18,630,000 paid for the railroad has gone into the abyss. To complete the excavation, the experts say, will require 800,000,000 francs more; to build the locks and fit up the

ports 200,000,000 francs more; and to It has cost some hundreds of mill- provide the necessary dams and reserions of dollars to demonstrate to Count voirs 200,000,000 francs more, making Ferdinand de Lesseps that stone has a total of \$1,200,000,000 france still to not the degree of permeability posses-sed by sand. It was no trick at all to mating the time required to complete dig a hole through the granulated the work at five years, the company

COUNT PERDINAND DE LESSEPS AND THE GREAT DITCH.

plain of Suez; but canalizing the solid | will have paid . 65,000,000 francs of rocks of Panama is quite a different interest on its obligations, which makes thing. This is at last admitted by De a total of 1,565,000,000 trancs to be Lesseps, and he now proposes to added to the 1,000,000,000 already change his work from a sea level to a gone—an aggregate of 2,625,000,000 lock canal. But will the undertaking, francs! even in its new shape, ever be a success? Can its promoters ever raise the

an article in a recent number on the 000 required should be raised on simsubject of the proposed alteration in ilar terms, the total obligations would the plan of the canal. The statistics be 4,121,804,000 francs, or \$817,it presents must certainly startle the 725,500! Gallic enthusiasts who have been inveigled into dumping money by the deduced in the main from the figures cart-load into a big ditch which prommost recently stated by De Lesseps. ises to remain for all time "without Tested by results, his figures must be form and void." Following is a syn-multiplied. His original estimate for

"The five divisions into which the line of the canal at Panama is divided contained at the outset 135,000,000 cubic meters to be removed. The acas follows: In the first division, from Aspinwall westward, three-fifths of the excavation, and in the fifth the state of excavation, and in the fifth division. and the Chagres River, which the from Panama eastward, one-third; canal crosses twenty-eight times, and in the second and third divisions, which is often converted into a resistfrom Tavernilla to Emperador, one-



PATRICK SARSPI LD GILMOR

eighth each, and in the fourth division, La Cuiebra, two twenty-sevenths. Of the total accomplishment of 30,666,-666 cubic meters out of the 135,0 .0,000 to be extracted 19,668,666 comes from 11,000,000 cubic meters have been ex- | the Panama Canal in 1898. Frank Germann, Chief Engineer of the Substitution of a canal with locks ahould reduce the total remaining excavation in these sections to 40,000,000 canal c tracted, after seven years' operations, and out of a total of \$6,000,000. Even

And even this is not all. In order to raise 1,060,000,000 francs vast sums needed for its completion? the company has had to issue obligations densired periodical in France, has france, and if the additional 1,567,500,000,-

But this total, enormous as it is, is opsis of statements made by this French scientific authority, which, by the way, is not hostile to the enterprise:

the entire cost of the canal was \$120,-000,000, which he raised; after that sum gave out, he increased his estisum gave out, he increased his estimate to \$214,000,000, then to \$240,000,-000, and finally to \$300,000,000, where

he stopped. The two greatest obstacles to the which is often converted into a resist-less torrent by the heavy rainfall. The deadly climate is another obstacle, but high wages have kept the force of men and officers at a total exceeding 11,00°, the dead being rapidly replaced. It is here interesting to note that the principal hospital maintained by the company has cost over \$830,000.

# LETTER FROM ASP. NWALL.

An Interview with One of the Contractors on the Great Ditch. From the Boston Globe,

ASPINWALL, April 10. The great question which interests everybody at Aspinwall, Panama, and all over the Isthmus, is the one in connection with the opening of the Panama

Canal. Count Ferdinand De Lesseps has named 1890 as the year when he intends to sail across his water route from ocean to ocean, but it is very doubtful whether Ferdinand believes

in his prophecy. M. Jacquier, Director General of the Panama Canal Company, stationed at Panama, declines to speak on the subject except when closely questioned by admiring Frenchmen, and then, of course, he joins in and with enthusiasm shouts 1890.

M. St. Anne, chief engineer of the the Atlantic and Pacific sections, where the earth is soft and the dredges encounter no serious obstacles. From the three central and diffi ult divisions

Frank Germann, Chief Engineer of

opinion as to the future of the Panama

canal. He said:

"Nobody here who knows anything at all about the canal can believe that the route will be opened to commerce in 1830, as De Lesseps has promised the stockholders of the company. For that matter, the canal is to-day just as iar from being opened as it was two years ago. Our work here is progressing rapidity, and we intend to complete the most conspi. uous figure in the re-

"Can the canal be finished at all?" "Certainly. There is nothing on the cussed man:

last dollar to have this canal finished; yes, he would take the coat from his back if he thought that by doing so he would push the canal work along. But he is surrounded by a number of his advisers who lead him on, and thereby enrich themselves, while at the same time they ruin the reputation of Count

Ferdinand De Lesseps."
From personal observation, as well as good information, obtained during my stay along the Isthmus of Panama, I have come to the conclusion that all the engineering difficulties can be overcome, and that the Panama canal could be finished within four or five years, provided the present manage-ment would step out and leave the finishing of the great water route to some good company. Gus. C. ROEDER,

### BOULANGER.

Some Interesting Points Anent That Man on Horseback.

Those Who Come in Personal Contact with Him Charmed by His

Manners.

It is curious to note the ceaseless interest with which the world follows French history and politics. Events in Faris echo round the world in a way commanded by the incidents of no other metropols. Mr. Frederic Harrison, who, like all the Positivists, regards France with something like fluid love, contrasted the conqueror and the congueror and the congueror and the congueror in 1871; all eyes, he said, were fixed on Paris, none on Berlin; the vanquished was the object of attention, not the victor. It was quite true, but the inference he drew—the superiority of the French over the Germans—was not just. France is an interesting country because of its contrasts. It does by short leaps and bounds what in other lands is achieved after centuries, or at least generations, of growth and development. In 1789 France leaped from the England of the Guelphs. The suddenness of the change was fascinating in itself. Principles of political liberty which had been taught soberly and carried out sensibly in England as a contrast the fast which had been taught soberly and carried out sensibly in England as a contrast the fast which had been taught soberly and carried out sensibly in England as a contrast the fast which had been taught soberly and carried out sensibly in England as a contrast the fast which had been taught soberly and carried out sensibly in England as a contrast the fast which had been taught soberly and carried out sensibly in England as a contrast the fast which had been taught soberly and carried out sensibly in England as a contrast the fast the same time is shall show myself bonne mine on all occasions, and create some warmth, some hope, some enthusiasm in the army and in the sectiments of the people toward it. This is appeared to the court sensible to the cour ried out sensibly in England a century before were suddenly flashed upon Europe by men of wit writing in a language known by every aristocracy in every court; they were not new to us, but they were new to Italians, Germans, Spaniards, and Danes. There is another cause for the attractiveness of France. She resembles among nadivided at present, says an exchange.

eternal story of France. We know not are arrayed against him. Cast from

ing rapidly, and we intend to complete the same as required from us per contract this year. All there is left for us to do now is to excavate the portion you see here before you between the Dingler and the City of Paris, and then we will have to more than any other before you between the Dingler and the City of Paris, and then we will have to more than any other beautiful photograph. The General is now just 50 years old. He is noted for his grace and gallantry, and then we will have to go over the entire route once more, commencing at
Colon and working up to Bohio, in
order to make the canal nine metres

The deep. The mean trouble with the en-terprise lies in its management, and I and the same qualities are said to charam willing to say that De Lesseps will acterize all his military actions. A never finish the canal." taining gossip about this much dis-

"Certainly. There is nothing on the whole route, no engineering difficulties so great that they could not be overcome. Let De Lesseps step out and a respectable business concern take charge of the work, and I can see no reason why this canal could not be completed within four or five years."

"All that is wanted down here now," said Mr. Germann, "is an American company with American capital at the head of the concern, and the Panama canal will be the great canal of the world. I know that De Lesseps himself is no engineer; he is a financier, and the old man would gladly give his last dollar to have this canal finished;



MARIAN HARLAND.

-into the very court, mind you, where no vehicle or horse of any other mortal is ever

M. le General comes down-stairs. All the windows of the hotel which look onto the court are crowded—crowded with guests, mes-

the words he repeats a thousand times and is never tired of repeating, the words he re-peated to me when I interviewed him: "Si je voulais le guerre, je rerais un fou; si je ne m'y preparais pas, je serais un miserable."

Is Boulanger Another Napoleon. For or against Boulanger. Thus the French republic seems to be politically



tions the ladies whom Carlyle nick- The "brave General, with scars to named "high-class unfortunates." She prove his every battle;" the "picturis always committing indiscretions. In esque General, with scores of decora-

his military position, they thought he would drop into obscurity; but the people, encouraged by the Bonapartiats, who see their opportunity in the feverish state of the nation, have showered honors upon him. With or with-out his candidacy votes are cast for him wherever elections occur through-

out the country.

Such popularity is without precedent. Boulanger seems practically the master of France. It remains to be seen what use he will make of his

Boulanger Opposes Aggression. A recent cable dispatch from Paris ays that "Gen. Boulanger has written a letter protesting against the warlike ideas that have been attributed to him. He wishes now to declare distinctly that Democratic France is maligned by being credited with thoughts of aggression, to whi h he has ever been, and still remains, resolutely opposed."

#### GILMORE.

Portrait and Sketch of the Great Band Leader

Patrick Sarsfield Gilmore, probably the most renowned and certainly the best known band leader in the United States, was born near Dublin, Ireland, Dec. 28, 1829. At the age of 15 he connected himself with military bands, and at once showed a remarkable talent and aptitude. So well was the youngster thought of that he was taken to Canada along with a crack English band. After that engagement was at an end he went to Salem, Mass., and became leader of a band there. He soon found, however, that his talents demanded a wider field, and he went to Boston, Massachusetts, where he organized "Gilmore's Band," and made such a success therewith that he was enabled to make an extensive and successful tour of the various cities of the country. In 1861 he accompanied the Twenty-fourth Massachusetts Regiment to the field, and in 1863 was placed in charge of all the bands in Louisiana by General Banks. He originated monster concerts in this country, and was the projector of the great "Peace Jubilee," held in Boston in 1869-72, and published an account of the first thereof. This account was published at Boston in the year 1871. Seven years after the latter date he made a European tour with his band, and created quite a furor in the large cities there. He is now Bandmaster of the Twenty-second Regiment National Guards of the State of New York. Bandmaster Gilmore has composed and revised many marches and songs, the most renowned being his American National Hymn.

#### MARIAN HARLAND.

Portrait and Brief Sketch of a Familian Artist.

The name of Marian Harland, the authoress, has long been a familiar one in literary circles, and from her pen, which is guided by a gentle, firm hand, and wielded by a firmer brain, have emanated some of the purest senti- the inside of a poet's skull. ments of modern literature. Marian Harland is one of the busiest women of our country to-day. While conducting the household department for a syndicate of fifteen papers, she, in addition to this, does editorial work in Babyhood and is completing a com-panion volume to her "Judith." The new book is to be entitled "In Old Virginia," and its success is warranted to equal if not surpass that of its predecessors A household manual entitled "Home Making and Housekeeping" is also to be issued from her publisher within a short time. Marion Harland's golden secret of success in literature lies in the open, unaffected way in which the expressions of sentiment, contained in her writings, appeal to her readers, carrying them on from page to page with an ever-increasing interest to the finis. She is a sensible, middle-aged woman, with a motherly way about her which emanates from a deep, sincere kindheartedness which results in winning the affections of all who come in contact with her, endearing her to all hearts. Her appearance is one of plainness coupled with a predominating sense of neatness, which pervades her whole person, her toilets being not at all calculated to win the eyes of an admiring fashion advocate. Her sincere kindliness of disposition, which lies at the root of many of her actions, enables her to do and say the right thing at the right time and place, giving discreetly the advice which is so abundantly sought after and asked of

PROF. SIMMLER brings forward the somewhat plausible theory that the basis of diamond formation is liquid or liquefied carbolic acid. Indeed, facts observed by different savants tend to show, it is said, the presence of this agent in the coating of the most valuable gems. Upon the bursting of such crystals there are often found to occur two liquids in the cavities, the one be-having like water, the other like liquid carbonic acid. Un one occasion, indeed, it was observed that the liquid in a quartz crystal, which was dashed to pieces, scattered its contents around with a great noise, burning holes in the handkerchief wound around the hands of the experimenter. The acid content itself had disappeared. Under these circumstances M. Simmler argues that, if carbon be soluble in liquid carbonic acid, it would then only be necessary to subject the solvent to slow evaporation. The carbon would there-by be deposited, and, by taking proper care, assume crystalline forms, and in evaporating quickly the so-called black diamond, which, in the state of pow-der, is much used for polishing, the colorless diamond might be produced. Though the liquid in question has never been subjected to chemical analysis, the formation of liquid carbonic acid in the interior of our globe may,

SATAN'S ENCYCLOPEDIA.



Away from eight of man;
But he who on this column looks
May read it if he can.
Discard your so-called knowledge nowBegin again anew;
From words below, in wisdom grow,
For what I write is true.

ARAB—A news reporter.

BAND-An imitation of a cat corral College-An institution for training young men to kick a foot-ball in

Homeric Greek fashion. DUMPLINGS-Boarding-house cannon balls.

EEL-A debtor.

FARMER-A vegetable juggler. GREEKS-Old resident in Limerick.

HEART—A bust padding of flint, worn by fashionable female flirts. ISAAC-Avuncular relative of everyone save himself.

JESTER-The obituary editor on the London Punch.

KIN-Conventional sponges.

LADY-The boss of the kitchen, who sits around the house while the family hustle for grub.

MAY—A design made by industrious cockroaches, who bathe in ink, then crawl over paper in war times for James Gordon Bennett to have their tracks photographed as a startling sample of the progressiveness of the New York Herald. Usually labeled, "Surveyed by your correspondent on the spot." Spot, 3,000 square miles.

NEWSPAPER -A daily magnifier of horrors, calamities and scandal. OLLAPODRIA-Spanish for boarding-

house soup. Post-A boy half started on an unwilling errand.

QUAGMIRE-Editorial ink.

REQUIEM-A humorous anthem said over the skeleton of d ceased newspaper men. SIDEBOARDS-Little knots of hair

worn in front of the ears to hold up the cheek of bashful drummers. TABLE-D'HOTE-Poorhouse soup form.

Us-Not you. Void-A nothingness in the head of the rhyming san tum-bore.

WHIMS-What we have when writing this column.

XYSTER—An instrument for scraping

YES-A word that makes a man feel disappointed when his heart's choice fails to utter it, and makes him doubly disappointed in her in after years, if she does utter it.

ZETETIC-What readers of this column may occasionally be obliged to in-

The Etiquette of Parting.

The social eliquette that regulates the time a young man will tear himself away from his very best girl is not so rigid in the rural districts as in the city. When the clock hands swing around toward ten and the pretty maiden by his side reminds him of the fact, the city swain goes home. Not so the youth in the rural district. Toward 11 o'clock his Janie says:

"Do you know what time it is, Ned Bangs?" "Course I do," he replies, smartly.
"Well, I guess you'd better put out

for home. "What's the rush?"

"I'd say 'rush' if I were you, when it's most midnight."
"I don't care if it's most midnight." "Well, I do, and you shan't stay here one second a ter midnight,"

"Bet you a cookie I do.' "No you shan't. I'il call pa, see if I don't.

"Oh, yes, you will."
"You'll see."
"I'll risk it."

"Oh, you're perfectly horrid! Now, you get your hat and clear out."

"Oh, pshaw, you'd be mad if I did."
"You wretch? You've got to go right away, for saying that." "You don't say so."

"I do, too; and I-I-if you dare kiss me again!" He dares.

"Ob, oh, oh! You are the meanest fellow. I've a notion to box your enrs.

"Box away." "When are you going home?"
"When I get a good ready." "Pa'll start you if he comes in."

"He won't come in." "Don't be too sure of that. If ma sees the light she'll scold."

"Let's put it out. "No, you shan't! You'd better put ourself out." See if I do."

"You'll sit here with the cat then. shan't keep you company."
"Pooh! A team of horses couldn't

"Oh, you horrid, horrid thing!" But it is midnight before he goes, all the same, and he hasn't had to sit with the cat either.—Tid-Bils.

A Fatal Omission. Old Man (to daughter)—Clara, Id's-covered Nero lying dead in the yard

his morning.
Daughter—I am very sorry, papa, but I can not help it. You knew very well that young Mr. Harvard was com-ing to see me last night, and you should have tied the dog out of harm's way.— New York Sun.

THE battle of Agincourt, where Henry V. of England, with about 2,000 men, defeated about 60,000 I rench, took place Oct. 25, 1415. The village of Agincourt, near where this battle was fought, and which gives the contest its name, is situated in the north of France.